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Scientific research of the SCO countries: synergy and integration

August 31, 2019. Part 1

| Поле | Значение |
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| Объект №1 | |
| Заголовок | PRIORITY DIRECTIONS OF DEVELOPMENT OF INTELLECTUAL CAPITAL OFINTELLECTUALCAPITAL |
| Аннотация | The relevance of the problem under study is due to the development of intellectual capital, since the methodological level of its development does not meet the requirements of a systemic reflection of objective processes and does not reveal fully their essence. The analysis of conceptual views on this issue points to many arguments, which indicates a divergence of theoretical positions. The purpose of the article is aimed at developing priority areas for the development of intellectual capital in the modern economy. The main results of the article will contribute to the formation of tools for testing the most progressive innovations aimed at the development of intellectual capital |
| Автор 1 | Abuzjarova, M.I. |
| Место работы автора 1 | Samara State University of Economics |
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| Объект №2 | |
| Заголовок | ENTERPRISE RESOURCE MANAGEMENT IN NATIONAL ECONOMIC SYSTEMS INNATIONALECONOMICSYSTEMS |
| Аннотация | This article discusses an entrepreneurial resource, the essential content of which is the introduction of a new idea (own invention or innovation) into the economic process (production or exchange), which should be classified as a main resource. The study makes it possible to determine the conceptual basis for the involvement of unused resources of entrepreneurship, which will increase the competitiveness of the national economy. |
| Автор 1 | Andreev, O.S. |
| Место работы автора 1 | Samara State Economic University |
| DOI | 10.34660/INF.2019.15.36173 |
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| Объект №3 | |
| Заголовок | THE STATE AND DEVELOPMENT OF THE COMPETITIVE ENVIRONMENT IN THE FIELD OF SOCIAL SERVICES: LEGISLATION, THEORY, PRACTICE (ON THE EXAMPLE OF THE KOMI REPUBLIC) |
| Аннотация | The article considers approaches to the determination of competition in the social sphere. On the basis of the all-Russian classifier of types of economic activity and in accordance with the standard for the development of competition in the constituent entities of the Russian Federation, a list of socially significant markets of the region is indicated. An Action Plan (road map) is presented to promote the development of competition in the Komi Republic. The monitoring of population satisfaction with the quality of social services have been analyzed. It is determined that the established target indicators of the private services market, at least 10 percent, have been achieved. |
| Автор 1 | Tikhomirova, V.V. |
| Место работы автора 1 | Institute of SocioEconomic and Energy Problems of the North Komi Science Center, Ural Branch of the Russian Academy of Sciences |
| DOI | 10.34660/INF.2019.15.36174 |
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Объект №4

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| Заголовок | AVOIDING THE USE OF DOLLAR PAYMENTS IN THE RUSSIAN ECONOMY UNDER SANCTIONS: PROBLEMS AND PROSPECTS |
| Аннотация | The article discusses the theoretical essence of the rejection of dollar payments and identifies the possibility of dedollarization. The aim of the article is to formulate problems and prospects for the dedollarization of the Russian economy under the conditions of sanctions. As research methods, systematization and generalization of theoretical concepts, analysis of statistical data were used. The main directions are proposed that provide prospects for the dedollarization of the Russian economy |
| Автор 1 | Stepanov, N.S. |
| Место работы автора 1 | Center for Institutions of Social and Economic Development of Institute of Economics, RAS |
| DOI | 10.34660/INF.2019.15.36244 |
| URL | http://naukarus.ru/public_html/wp-content/uploads/2019/Scientific%20research%20of%20the%20SCO%20countries%20-%20English%20Reports%20-%20August%2031%20-%20Part%201.pdf#page=29 |

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Объект №5

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| Заголовок | FORM OF GOVERNMENT IN RUSSIA |
| Аннотация | <p>The article analyses theoretical patterns of presidents governance. The features of power in Russia are related to historical features of adoption of the Constitution of the Russia, in which the first President of the Russia B. Yeltsin legitimized his monist authoritarian power. This article analyses features of the government form in the Russian Federation against the background of its comparison with both traditional and the newest forms of government in the world, especially with De Gaulle model of presidential power under the French Constitution of 1958. The author names the Russian form of government as constitutional presidential monarchy, analyzes advantages of this situational model, through which President Putin managed to become the leader of Russia for a long time, to keep its integrity and ensure stability of the constitutional system.</p> |
| Автор 1 | Bobrova, N.A. |
| Место работы автора 1 | Togliatti State University |
| DOI | 10.34660/INF.2019.15.36245 |
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| Объект №6 | |
| Заголовок | STATE WITHOUT IDEOLOGY IS ABSURD |
| Аннотация | <p>The slogan of deideologization is of ideological nature, allowing moral disarmament of society during the period of a fundamental change in former values and making society powerless in the fight against vulgar market capitalism, introduced in Russia in the 1990s of XX century under the guise of the so-called universal values. Deideologization is an ideology of chaos and hypocrisy, where bourgeois values always prevail. Scientists and politicians who criticize part 2 of art. 13 of the Constitution of the Russian Federation do not advocate writing down some ideology in the Constitution, which opponents accuse them of. This article should be excluded from the text of the Constitution simply as unscientific and untrue.</p> |
| Автор 1 | Bobrova, N.A. |
| Место работы автора 1 | Togliatti State University |
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Объект №7

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| Заголовок | PROFESSIONAL STANDARD “HEAD OF A GENERAL EDUCATIONAL ORGANIZATION”: PARADIGM BASES |
| Аннотация | The article provides a brief excursion into the history of the development of professional standards. It substantiates the idea of the need to rely on the candidates paradigmatic views on filling the post of the head of the general educational organization and assessing the adoption of personality-oriented, culturological and multisubject approaches as the main methodological foundations of the organization of the procedure. |
| Автор 1 | Monakhova, L.Y. |
| Место работы автора 1 | Institute of Education Management of the Russian Academy of Education |
| Автор 2 | Riabokon, E.A. |
| Место работы автора 2 | Military Academy of Communications named after Marshal of the Soviet Union S.M. Budenny |
| DOI | 10.34660/INF.2019.15.36247 |
| URL | http://naukarus.ru/public_html/wp-content/uploads/2019/Scientific%20research%20of%20the%20SCO%20countries%20-%20English%20Reports%20-%20August%2031%20-%20Part%201.pdf#page=51 |
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Объект №8

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| Заголовок | THE CONCEPT OF A COMMUNITARIAN SOCIETY IN A NATIONALLY ORIENTED EDUCATION |
| Аннотация | <p>How can a nationally oriented institution be created if the main ideological direction of the Ministry of Education of the Russian Federation is in line with Eurocentrism And if the autochthonous peoples of Russia have the right to sovereign development, then why do we form our children according to foreign patterns of the Bologna system If Russia is not a colony and not a satellite country, then why does the dominant of international rights act over domestic ones (Art. 15, Clause 4 of the Constitution of the Russian Federation) Reliance on the synergistic approach and the theory of chaos suggests the emergence of fluctuations that entail cardinal social changes. Nonlinear dynamics of the principle of spontaneous emergence of I. Prigogin, the principle of incompatibility of Lotfi Zadeh, the principle of Paulis ban can lead to an ambitious ending. Our scientific contribution to overcoming the problem of the planting of a hostile ideology in the identification of friend or foe is to find an idea and a way to implement the authors Concept of the Peoples University of Social and Political Technologies Lodomir with the training of a specialist in the field of consensual security. We understand that a communitarian school cannot arise in consumer society, but the movement towards ideational development must go both above and below. Our scientific hypothesis is connected with the forecast of the dominant transition from the technogenic West to the sacred East, which implies that the education system must be prepared in accordance with the expected omega point in the communitarian society of the ideational era. Just as in the silver age Russian religious philosophers represented by V. Solovyov, N. Berdyaev, P. Florensky, I. Ilyin raised their civic voice in the face of the civil war to find a way out of the systemic crisis, so at the present stage there was an urgent need to find new concepts of development of society and ways of heating passionarity in nationally oriented educational institutions.</p> |
| Автор 1 | Shishkin, A.E. |
| Место работы автора 1 | Reaviz Medical University |
| DOI | 10.34660/INF.2019.15.36248 |
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Объект №9

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| Заголовок | VERSIONS OF VALUES IN MODERN AXIOLOGY |
| Аннотация | <p>This article presents various interpretations of the understanding of the essence of values as a natural property, the divine spiritualization of things, or the human meaning that people put into the results of their activities, turning nature into a culture, natural into artificial. The classical labor theory of value, but with its significant generalization from the economic context to the general theoretical level of social philosophy, in which values are understood as products of practical and spiritual activity, is adopted as a fundamental model. The method of dialectic synthesis is used to identify deep unity in human activity in the development of natural material and the materialization of ones spiritual wealth in the products of labor. It is by virtue of this unity that a person is addicted to things, and the world around him is perceived emotionally. All external man experiences as an objectification of his inner world.</p> |
| Автор 1 | Kryukov, V.V. |
| Место работы автора 1 | Siberian State University of Geosystems and Technologies |
| DOI | 10.34660/INF.2019.15.36249 |
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Объект №10

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| Заголовок | RUSSIA AND CHINA IN BIPOLAR WORLD |
| Аннотация | <p>The article shows that the modern world can no longer be regarded as capitalistic. It is bipolar. It has a progressive part, consisting of countries that have completed the socialist revolution, and a reactionary one, led by the largest imperialist states. Those countries of the socialist camp are blocking with those bourgeois states that do not want to be victims of imperialist robbery, such as Russia, India, Pakistan and others. The modern world is bipolar and truly the wind from the East dominates the wind from the West.</p> |
| Автор 1 | Popov, M.V. |
| Место работы автора 1 | Saint Petersburg State University |
| DOI | 10.34660/INF.2019.15.36250 |
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Объект №11

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| Заголовок | STUDY OF THE INDIVIDUAL PSYCHOLOGICAL CHARACTERISTICS OF WOMEN WITH LEIOMYOMAS IN REPRODUCTIVE AGE |
| Аннотация | The article demonstrates an experimental psychological study of the typology and structure of the personality, where the Russianlanguage version of the Eysenck methodology (EPI) is used (Personal Questionnaire (adapted version of the Eysenck methodology), 1994) and G. Ammons Istructural test (ISTA), Russianlanguage version (G. Ammons Istructural test Guide, 2002 Tupshchyn, Yu.Ya. et al., 2000). |
| Автор 1 | Malenkih, G.A. |
| Место работы автора 1 | LLC Medical Center quotPEAN quot Yekaterinburg, Russia |
| Автор 2 | Kremleva, O.V. |
| Место работы автора 2 | USMU Yekaterinburg, Russia |
| Автор 3 | Tokareva, J.A. |
| Место работы автора 3 | Ural Federal University Yekaterinburg, Russia |
| DOI | 10.34660/INF.2019.15.36251 |
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Объект №12

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| Заголовок | MODERN POSSIBILITIES OF TREATMENT OF SEVERE OSTEOPOROSIS |
| Аннотация | Osteoporosis remains one of the urgent problems of health care, due to the high prevalence and early disability. The purpose of this study was to study the effect of therapy with Teriparatide on the BMD of the spine, proximal femur and bone metabolism in patients with severe postmenopausal osteoporosis, as well as to assess the incidence of new fractures. |
| Автор 1 | Zhugrova, E.S. |
| Место работы автора 1 | Mechnikov NorthWest State Medical University |
| Автор 2 | Mazurov, V.I. |
| Место работы автора 2 | Mechnikov NorthWest State Medical University |
| DOI | 10.34660/INF.2019.15.36252 |
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Объект №13

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| Заголовок | ATRIAL FIBRILLATION IN HYPERTENSION IN COMBINATION WITH ABDOMINAL OBESITY: SOME PHENOTYPIC AND GENETIC FEATURES |
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Аннотация

To evaluate the features of the course of atrial fibrillation and the association of the CSK and rs2200733 gene polymorphisms rs1378942 in patients with arterial hypertension and abdominal obesity Material and methods. In an observational cohort study, 116 men aged 45-65 years were observed. Of these, 57 patients with AF, AH and AO, and a control group of 59 patients with AF, AH and without AO. The paper evaluated clinical, anthropometric and laboratory parameters, the results of instrumental diagnostics: echocardiography (ECHO KG Acuson Aspen (USA), daily monitoring of ECG (Holter system SCHILLER Medilog). Testing polymorphism rs1378942 of CSK gene and rs2200733 using chromosome 4q25 was carried out using PCR (polymerase chain reaction) followed by analysis of RFLP (restriction fragment length polymorphism). All statistical calculations were performed in the Rstudio program (version 0.99.879 20092016 RStudio, Inc., USA). Results. When comparing the average level of body mass index in subgroups of carriers of different genotypes rs2200733 of chromosome 4q25, it was proved that carriers of the genotype CC have the highest body mass index ($p < 0.05$). When assessing the left ventricular myocardial mass index with rs1378942 of the CSK gene and rs2200733 of chromosome 4q25, a comparable increase in the left ventricular myocardial mass index was found in both groups, and when comparing genotypes, a significant advantage of the AS genotype was found ($p < 0.003$) compared with AS and CC. In SNP rs2200733 of chromosome 4q25, an increase in the index in the series of the CC genotype is observed, regardless of the presence of AO, but in the group with AO, an increase in the index in the series of the ST genotype is noted. A decrease in the left ventricular myocardial mass index in patients with AO was found to be $145.6 \pm 3.5 \text{ g / m}^2$, compared with the group without AO $193.8 \pm 0.8 \text{ g / m}^2$ ($p < 0.05$). It was proved that in the group with AO, the progression of atrial fibrillation occurred 2.57 times more often than in the group without abdominal obesity ($p < 0.003$). Conclusion. Despite sampling limitations, our study adds material to existing data that contributes to the prognostic assessment of the progression of atrial fibrillation in patients with arterial hypertension and abdominal obesity. Larger studies will

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| Автор 1 | Khidirova, L.D. |
| Место работы автора 1 | Novosibirsk State Medical University |
| Автор 2 | Gurazheva, A.A. |
| Место работы автора 2 | Research Institute of Therapy and Preventive Medicine |
| Автор 3 | Maksimov, V.N. |
| Место работы автора 3 | Research Institute of Therapy and Preventive Medicine |
| DOI | 10.34660/INF.2019.15.36253 |
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Объект №14

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| Заголовок | PARTICIPATION OF ACTIVE FORMS OF OXYGEN (ROS) AND NITROGEN (RNS) |
| Аннотация | <p>The literature data on the physiological role of ROS and RNS in the mutualistic interaction of legumes (Fabaceae) and nodule bacteria (Rhizobiaceae) are summarized. It is emphasized that ROS and RNS act as key metabolites in plants affected by stress based on the wave propagation of signal molecules (O₂, H₂O₂, NO, Ca²⁺) as a system signals. A special role is played by membrane NADPH oxidase as a generator of such signal molecules as O₂, H₂O₂ and affecting its functional activity and NO and Ca²⁺. The nitric oxide (NO) multifunctional signal molecule is provided characteristics as a representative of RNS. Similarity of the processes of plant resistance to invasion of pathogenic bacteria and rhizobia at the initial stages of their penetration is stated. Dependence of formation of the legumerhizobial symbiosis on H₂O₂ and NO considered. It is suggested that the ratio of NO, H₂O₂, O₂ and ONOO in the cell determines the cell supersensitive response to the activity of extreme factors on plant both in the pathogenesis and in symbiotic interaction.</p> |
| Автор 1 | Glyanko, A.K. |
| Место работы автора 1 | SiberianBranch of the Russian Academy of Science Irkutsk, Russia. |
| Автор 2 | Khusnidinov, S.K. |
| Место работы автора 2 | Irkutsk State Agricultural University Irkutsk, Russia |
| Автор 3 | Dmitriev, N.N. |
| Место работы автора 3 | Irkutsk State Agricultural University Irkutsk, Russia |
| DOI | 10.34660/INF.2019.15.36254 |
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Объект №15

Заголовок

2,4-DINITROPHENYLHYDRAZONES OF BROMO DERIVATIVES OF BENZALACETONE AND DIBENZALACETONE

Аннотация

In this paper, we discuss the results of studies on the synthesis and study of the physicochemical properties of benzalacetone and dibenzalacetone derivatives with bromine atoms in benzene moieties. The aim of the work is to develop synthesis methods and study the properties of 2,4-dinitrophenylhydrazones 4 (4-bromophenyl) buten-3-one-2 (benzalacetone derivative) and 1,5-bis (4-bromophenyl) pentadiene-1,4-one-3 (dibenzalacetone derivative). The relevance of the work is dictated by the search for ways to create new organic materials with potentially valuable properties. At the first stage of the study, using the methods of quantum chemistry, the geometric and electronic structures of the compounds under study were observed, and features of the spatial arrangement of atoms and the distribution of electron density in molecules were revealed. The thermal effects of the reactions of the formation of 2,4-dinitrophenylhydrazones of the above ketones were calculated, both reactions are exothermic. Then the synthesis of compounds was carried out, the influence of some factors on the course of reactions was studied. According to the results of the experiments, it was proposed to carry out the synthesis in a hot water-alcohol solution in the presence of hydrochloric acid. The synthesized compounds are orange solids that are readily soluble in DMF and acetone. To control the purity of the products, thin layer chromatography was used. The melting points of the compounds are determined. At the stage of spectral studies, vibrational spectra of substances were obtained, the main characteristic bands were identified, and their assignment was carried out using published data.

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|-----------------------|---|
| Автор 1 | Kulikov, M.A. |
| Место работы автора 1 | Bereznikovsky branch of the Perm National Research Polytechnic University |
| DOI | 10.34660/INF.2019.15.36255 |
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Объект №16

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| Заголовок | FATIGUE OF THE VISUAL ANALYZER AS A DANGEROUS FACTOR OF THE AIRCRAFT FLIGHT |
| Аннотация | The dependence of visual capabilities of a person on technogenic factors in the professional activity of a pilot and an aviation dispatcher is analyzed. The conditions leading to reduction of operational reliability resources of aviation specialists are revealed, recommendations on control of their psychophysiological state are formulated. Limiting the functioning of the visual analyzer is considered as a dangerous flight factor. |
| Автор 1 | Samokhina, S.S. |
| Место работы автора 1 | Russian Academy of natural history |
| Автор 2 | Samokhina, N.S. |
| Место работы автора 2 | Russian Academy of natural history |

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| Объект №17 | |
| Заголовок | THE USE OF CHEMICAL FUEL PROCESSING TO IMPROVE THE ECONOMIC AND ENVIRONMENTAL PERFORMANCE OF MARINE INTERNAL COMBUSTION ENGINES |
| Аннотация | The results of the application of additives to marine motor fuels are considered. The study determined Specific Fuel Oil Consumption, the temperature of the exhaust gases, the concentration of NOx and SOx in the exhaust gases, as well as the technical condition of the elements of the fuel equipment and cylinder-piston group. It is shown that the use of fuel additives contributes to a decrease of 3.5 ... 5.8 of Specific Fuel Oil Consumption depending on the load on the diesel and the concentration of the additive in the fuel. An increase in the environmental characteristics of diesel operation was established a decrease by 1.4 ... 4.3 of the concentration of NOx and by 15.6 ... 22.9 of the concentration of SOx in the exhaust gases. It was shown that the additive concentration has an optimal value, is determined experimentally and depends on the characteristics of the diesel engine and the fuel used. |
| Автор 1 | Zablotsky, Y.V. |
| Место работы автора 1 | National University Odessa Maritime Academy |

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Объект №18

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| Заголовок | DECREASE IN MECHANICAL LOSSES IN HIGH-PRESSURE FUEL EQUIPMENT OF MARINE DIESEL ENGINES |
| Аннотация | The effects of hydrodynamic and boundary lubrication occurring in a friction pair of a plunger a sleeve of a highpressure fuel pump of marine internal combustion engines are considered. To determine the thickness of the boundary lubricating layer of fuel, an optical birefringence method is proposed, which is based on the phenomenon of optical anisotropy. As an estimate of the tribotechnical characteristics of the friction triad, the plunger fuel bushing, an electropulse method of measuring wear is proposed, which allows one to determine the friction force and wear rate. It was experimentally established that the thickness of the boundary layer of fuel, depending on operating conditions, is within 4 ... 12 mkm, contributing to the lubrication regimes that are hydrodynamic and boundary without contact of surfaces. Ways are proposed to increase the degree of ordering of the molecules of the boundary layer and its thickness. It is shown that the use of the liquid crystal properties of the boundary layers of the fuel can be used in precision pairs of highpressure fuel pumps to reduce mechanical losses |
| Автор 1 | Sagin, S.V. |

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| Место работы автора 1 | National University Odessa Maritime Academy |
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Объект №19

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| Заголовок | ENSURING ENVIRONMENTAL PERFORMANCE INDICATORS OF MARINE DIESEL ENGINES |
| Аннотация | The influence of exhaust gas recirculation of a marine lowspeed diesel engine on its environmental, economic and energy performance parameters is considered. It is shown that a decrease in the concentration of NOX in exhaust gases when using a recirculation system can reach 37.9 ... 53.5. It is proposed to use the EGR system as the main way to reduce the level of NOX, emission, ensuring the level of this parameter in accordance with the requirements of international organizations. |
| Автор 1 | Kuropyatnyk, O.A. |
| Место работы автора 1 | National University Odessa Maritime Academy |
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Объект №20

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| Заголовок | ANALYSIS OF DIFFERENT METHODS OF TREATMENT IN THE STUDY OF STONE COAL FROM OUTBURST AND IMPACT ZONES COAL MINE WITH THE HELP OF X-RAY ANALYSIS |
| Аннотация | The results from research of the effect of coal samples preparation from outburst and impact zones of coal mines by Xray fluorescence analysis (XRF) are presented. Tests were carried out by the express method using a portable RF analyzer. The examples of coal spectra of various grades are considered. It is shown that the dispersed composition of coal dust and the size of coal particles from areas of high rock pressure do not affect the peaks of the energy of the Kline of iron in the RF spectrum. |
| Автор 1 | Sharavin, E.O. |
| Место работы автора 1 | SaintPetersburg University of State Fire Service of EMERCOMof Russia |
| Автор 2 | Dubrovskaja, V.A. |
| Место работы автора 2 | SaintPetersburg Mining University |
| Автор 3 | Pikhkonen, L.V. |
| Место работы автора 3 | ANO DPO UTS MAEB |
| DOI | 10.34660/INF.2019.15.36260 |

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| URL | http://naukarus.ru/public_html/wp-content/uploads/2019/Scientific%20research%20of%20the%20SCO%20countries%20-%20English%20Reports%20-%20August%2031%20-%20Part%201.pdf#page=154 |
| Объект №21 | |
| Заголовок | ALGORITHM FOR CALCULATING NON-DESTROYED ELEMENTS OF A COATING SYSTEM |
| Аннотация | At design supporting structures for coatings of transport buildings and structures for northern areas in accordance with regulatory requirements, their resistance to progressive (chain) collapse is determined. To ensure safety, the structural system of the building in the northern areas must ensure its durability and stability, at least for the time necessary to evacuate people. To improve the reliability of the supporting structures of coatings proposed, developed and researched the system of redundancy of the typesprengel. The scenario of collapse and an algorithm for calculating the intact elements of the coating system are proposed. The results of the study are given, which indicate that by varying the rigid parameters of the backup system it is possible to achieve minimal damage from the collapse of individual elements of the system. |
| Автор 1 | Abu-Khasan Makhmud Samievich, |
| Место работы автора 1 | Emperor Alexander ISt. Petersburg State Transport University |
| Автор 2 | Egorov, V.V. |
| Место работы автора 2 | Emperor Alexander ISt. Petersburg State Transport University |

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| Автор 3 | Veselov, V.V. |
| Место работы автора 3 | Emperor Alexander ISt. Petersburg State Transport University |
| DOI | 10.34660/INF.2019.15.36261 |
| URL | http://naukarus.ru/public_html/wp-content/uploads/2019/Scientific%20research%20of%20the%20SCO%20countries%20-%20English%20Reports%20-%20August%2031%20-%20Part%201.pdf#page=161 |
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Объект №22

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| Заголовок | ON THE CRYSTALLIZATION MECHANISM IN DECOMPOSITION OF ALUMINATE SOLUTIONS |
| Аннотация | The paper analyzes various models of the process of mass crystallization from solutions. It was determined that in the domestic and foreign literature there is practically no data on the study of the laws of change in the specific surface of a crystallizing solid phase under conditions of industrial crystallization of aluminate solutions. Nevertheless, the specific surface of the resulting solid phase can characterize the action of a number of factors. The measurement of the specific surface makes it possible to simplify the study of the kinetics of the crystallization process and to obtain an additional informative parameter for automated process control systems with quality control of the resulting product |
| Автор 1 | Polovneva, S.I. |
| Место работы автора 1 | Irkutsk National Research Technical University |

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|-----------------------|---|
| Автор 2 | Bashkirova, L.A. |
| Место работы автора 2 | Irkutsk National Research Technical University |
| DOI | 10.34660/INF.2019.15.36262 |
| URL | http://naukarus.ru/public_html/wp-content/uploads/2019/Scientific%20research%20of%20the%20SCO%20countries%20-%20English%20Reports%20-%20August%2031%20-%20Part%201.pdf#page=171 |
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Объект №23

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| Заголовок | CREATION OF DUPLICATE TEXTILE MATERIALS WITH FUNCTIONAL PROPERTIES |
| Аннотация | The article reveals the relevance of creating duplicate materials. The possibility of using domestic acrylic copolymers for durable bonding of textile materials and obtaining new duplicated materials with improved consumer properties is shown. The vaporpermeability properties of duplicated materials are determined. |
| Автор 1 | Polushin, E.G. |
| Место работы автора 1 | Ivanovo State University of Chemistry and Technology |
| Автор 2 | Zimnurov, A.R. |
| Место работы автора 2 | Ivanovo State University of Chemistry and Technology |
| Автор 3 | Kozlova, O.V. |

| | |
|-----------------------|---|
| Место работы автора 3 | Ivanovo State University of Chemistry and Technology |
| DOI | 10.34660/INF.2019.15.36263 |
| URL | http://naukarus.ru/public_html/wp-content/uploads/2019/Scientific%20research%20of%20the%20SCO%20countries%20-%20English%20Reports%20-%20August%2031%20-%20Part%201.pdf#page=177 |
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Данные проверены